



Figure 5.7.3c-2

Temperature tolerance responses for a hypothetical fish. The *dotted* area represents the zone of thermal tolerance (Brett 1960; Coutant 1970; Jobling 1981). AP = acute thermal preferendum, LE = line of equality, LILT = lower incipient lethal temperature, FP = final preferendum, UUILT = upper ultimate incipient lethal temperature, TID = temperature of instantaneous death, LZTR = lower zone of thermal resistance, and UZTR = upper zone of thermal resistance. The responses can vary within and between species because of genetic differences, environmental influences, and other factors, including the life stage. The area bounded by the 50% mortality line is the zone of thermal tolerance.